**Assignment-5**

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Question 1: Explain this following bash script:

**#!/bin/bash** -  is a shebang line used in script files to set bash, present in the '/bin' directory, as the default shell for executing commands present in the file

**space\_free=$( df -h | awk '{ print $5 }' | sort -n | tail -n 1 | sed 's/%//' )**

**df –h** - df command displays the amount of disk space available on the filesystem with  human-readable format

**awk '{ print $5 }** – it will print the fifth column.

**sort –n** - This will sort from lowest number to highest number

**tail -n 1 –** it willextracts the last line

output of above line will store in space\_free variable

case $space\_free in[1-5]\*) - If $space\_free is between 1 to 5 then it will print plenty of disk space available. the ) signifies the end of the pattern.

echo Plenty of disk space available

**;; -** We identify the end of this set of statements with a double semi-colon ( ;; ). Following this is the next case to consider.

[6-7]\*) If $space\_free is between 6 to 7 then it will print There could be a problem in the near future. the ) signifies the end of the pattern

echo There could be a problem in the near future

;;

8\*) If $space\_free is 8 then it will print Maybe we should look at clearing out old files. the ) signifies the end of the pattern

echo Maybe we should look at clearing out old files

;;

9\*) If $space\_free is 9 then it will print We could have a serious problem on our hands soon. the ) signifies the end of the pattern

echo We could have a serious problem on our hands soon

;;

**\*)** -   The \* represents any number of any character. It is essentially a catch all if for if none of the other cases match and print something is not quite right here.

echo Something is not quite right here

;; - the end of this set of statements.

**Esac** - esac is case backwards and indicates we are at the end of the case statement. Any other statements after this will be executed normally.